

IN THE CLAIMS:

1. (currently amended) A composition adapted for use as a sealing strip in the manufacture of insulating structures characterized by improved compression resistance and low moisture vapor transmission rates whereby no spacer or moisture barrier is present therein, ~~comprising a single component comprising:~~

a polymeric base material selected from the group ~~including in combination compounds chosen from the group~~ consisting of a terpolymer and a copolymer or polymer consisting of in combination polyisobutylene copolymers, polyisoprene copolymers, polyisobutylene polymers, brominated olefin polymers, butyl rubber copolymers, ethylene-propylene polymers, polysulfide polymers, polyurethane polymers, and styrene;

a cross linking agent including compounds chosen from the group consisting of divalent metal oxides, divalent salts of organic fatty acids, ~~organic fatty acids~~, zinc oxide, zinc stearate, stearic acid, zinc octoate, tin octoate, and calcium stearate, wherein said cross-linking agent constitutes a displacement agent which acts to displace a halogen atom in an ionic reaction, resulting in cross-linking of the polymeric base material ; and

an adhesion promoter

2. (currently amended) The composition according to claim 1 further comprising a tackifier wherein the tackifier is less than 10% of the composition by weight.

3. (original) The composition according to Claim 1, wherein the cross linking agent is zinc octoate.

4. (original) The composition according to Claim 1, wherein the adhesion promoter is chosen from the group consisting of organopolysiloxanes, organosilanes, organoaminosilanes, epoxysilanes, thiosilanes, organosilanols, alkoxysilanes, acetoxysilanes and ketoxysilanes.

5. (original) The composition according to Claim 1, wherein the adhesion promoter is chosen from the group consisting of vinyltriethoxy silane, methyltris(isopropenoxy)silane, (N,N-Dimethyl-3-aminopropyl) silane, gamma-glycidoxy-propyltrimethoxysilane, polydimethylsiloxane and N-beta-(aminoethyl)-gamma-aminopropyltrimethoxysilane.
6. (original) The composition according to Claim 1, wherein the adhesion promoter is organoaminosilane.
7. (original) The composition according to Claim 1, wherein the tackifier is chosen from the group consisting of organic monomers, oligomers and polymers of hydrogenated C5 and C9 resins, C5 hydrogenated resins, polyterpene resins, pentaerythritol esters of hydrogenated wood resins, phenolic polyterpene resins, alpha pinene resins, dipentene resins, hydrogenated C5 esters, cycloalkene resins, phenol-aldehyde resins, rosin acids and esters, dipentene resins, petroleum hydrocarbon resins and alkyl aromatic hydrocarbon resins.
8. (original) The composition according to Claim 1, wherein the tackifier is C5 hydrogenated resins.
9. (original) The composition according to Claim 8, wherein the cross linking agent is chosen from the group consisting of divalent metal oxides, divalent salts of organic fatty acids, organic fatty acids, zinc oxide, zinc stearate, stearic acid, zinc octoate, tin octoate and calcium stearate.
10. (original) The composition according to Claim 8, wherein the adhesion promoter is chosen from the group consisting of organopolysiloxanes, organosilanes, organoaminosilanes, epoxysilanes, thiosilanes, organosilanols, alkoxysilanes, acetoxysilanes and ketoxysilanes.

11. (canceled)

12. (original) The composition according to Claim 1, further including a filler, molecular sieve and plasticizer.

13. (new) The composition of Claim 1, wherein the polymeric base material, the cross-linking agent and the adhesion promoter are added together in a single vessel.